2

THE

PLAN

OF A

Roman Camp,

Proved out of

POLYBIUS,

In the following SHEETS;

To which the Letters in the ſaid PLAN refer.

Printed for JOHN PEELE, Bookſeller in *London*, GEORGE GRIERSON at the two *Bibles* in *Eſſex-ſtreet*, and PHILIP CRAMPTON at *Addiſon*'s Head oppoſite the *Horſe-guard* in *Dame*'s-*ſtreet*, *Dublin*. M. DCC. XXVIII.

C. 2725.

BRITISH MUSEUM

PREFACE.

THOSE modern Authors that treat of the ancient *Military Diſcipline* of the *Romans* differing moſt of them in their Sentiments, and the *Plans* they give us on that Subject, more or leſs, in ſome material Points, I have with the greater Care at my leiſure Hours in Quarters examin'd ſuch of the *Ancients* themſelves as give the moſt Light into theſe Matters. And as *Polybius* is the only one of them that gives the Deſcription of the *Roman Camp*, I have ſtudied his Senſe about it to the beſt of my Ability, and attempted a *Plan* ac-

cordingly for which the following Rules are offer'd as Authority.

And here I think my ſelf oblig'd to ſhew wherein *Lipſius*, and other modern Writers on this Subject, ſeem to have departed from the Rules *Polybius* has deliver'd, and their Conſequences, whom nevertheleſs they all profeſs to follow.

I. *Lipſius* makes his *Camp* 33 Foot longer from Front to Rear than it is broad, contrary to the Rule T, which *Polybius* gives for keeping the Whole to an equilateral *Square*. And if to the ſaid 33 Foot we add 50 Foot of Ground more he leaves out croſs the *Camp*, allow'd the *Tribunes* for their Horſes, Beaſts of Carriage, and other Equipage, by the Rule B, the Difference will be 83 Foot. He

He leaves out 20 Foot of Ground on each ſide the Depth of the *Forum*, and *Quæſtorium* which belongs to the *Guards*, their Ground commencing from the laſt Tents of the *Tribunes* by the Rule N. whereas *Lipſius* begins it 20 Foot diſtant from the ſaid Tents.

He takes up ground among the *Guards* for 60 *Horſe* and 640 *Foot-Volunteers*, which is a Number vaſtly exceeding what commonly attended one *Conſul* with two Legions, and the ordinary complement of *Allies*.

And thus by quartering ſuch a Number of *Volunteers* among the *Guards*, and leaving out Part of their Ground as above, it comes to paſs he has ſo many of the Extraordinary more

more to quarter in the Rear, that in giving them Ground, he has taken up 83 Foot in depth croſs the *Camp* (the Difference above mentioned) more than can be compris'd in the equilateral Square, and obſerve the Rules *Polybius* has deliver'd.

He takes up abſolute Ground for the *Quæſtor* and two *Legati* excluſive of the Publick, which he has no Authority for.

Tho' *Polybius* has omitted to mention the Quarters of the *Præfecti* of the *Allies*, their Ground falls out naturally to cover their own Horſe and Foot, as the *Tribunes* Quarters do by the Rule B, but *Lipſius* contrary to this Rule extends the Tents of the *Præfecti* 29 Foot beyond what covers their own

own Troops, and ſo intrudes upon a Paſſage of 50 Foot which would otherwiſe be left from the *Principia* to the Horſe-Guards, and muſt be convenient to them as they front the *Forum*, and *Quæſtorium*: Beſides this 50 Foot makes a handſome Diſtinction between the *Tribunes* Tents and thoſe of the *Præfecti*, and anſwers the Street left between their reſedctive Troops.

II. The Plans we commonly meet with of the Duke of *Rohan* are none of them methodically drawn, but if we examine his Explanation, and the Line of Dimenſions each way, we ſhall find he has left out with *Lipſius* the 50 Foot of Ground croſs the Camp allow'd the *Tribunes* for their Horſes, *&c.*

He

He takes up 50 Foot of Ground in Depth too much for the Quarters of Part of the Extraordinary, Supernumeraries, and Strangers, which anſwering what he left out of the *Tribunes*, is the Reaſon his Camp continues a Square.

He ſeems entirely to have miſtaken the Senſe of *Polybius* in his diſtribution of the laſt mentioned Quarters in the Rear.

And in this Plan we likewiſe find the *Forum* divided into ſeveral Parts, one for the Cloathing, one for the Artillery, one for the Proviſions, and another for the Arms: And tho' we allow it was not the Author's Intention to divide the *Forum* ſo, but the *Quæſtorium*,

ſtorium, yet for making ſuch a particular Diviſion of that Ground he has no good Authority.

III. Sir *Henry Savile* in his View of the military Affairs of the *Romans* gives a Deſcription of their Camp, which he brings to an equilateral Square: But upon Examination we ſhall find he has made it 32 Foot too broad, by allowing each Line of the auxiliary Horſe 16 Foot in Depth more than their Proportion.

He leaves out croſs the Camp 50 Foot in Depth allow'd the *Tribunes* for their Horſes, *&c.* And takes up 82 Foot of Ground in Depth too much in the Rear of the Camp for the Extraordinary that remain after com-

pleating the Guards, and for Super-numerary Allies and Strangers, which juſt anſwers the 32 and 50 Foot above mentioned.

He makes the *Forum* and *Quæſtorium* too large, and the Quarters of the Guards too little, as the following Rules will ſhew.

And among other Miſtakes in the *Præfects* Quarters, he extends their Tents 50 Foot beyond what covers their own Troops.

I have met with many other modern Authors on this Subject, but none of them who, beſides other Overſights they may have committed of their own, have not retain'd ſome of the principal Errors already taken

Notice

Notice of; and therefore think it needleſs to give the Reader any further Trouble upon this Head.

As to the Plan now offer'd, the Whole makes an equilateral Square, which I ſhall here prove was the Figure conſtantly us'd by the antient *Romans* for the encampment of a Conſular Army.

For *Polybius* tells us in his ſixth Book, juſt before the Rule [A], that *the* Romans *had one plain ſimple Method of encamping, which they us'd at all Times, and in all Places.* "ἑνὸς ὑπάρχουλος "παρ' ἀυτοῖς (Ρωμαίοις) θεωρήμαλος ἁπλῦ τερὶ τὰς παρεμβολὰς, ὦ χρῶνλαι πρὸς "πάνλα καιρὸν καὶ τόπον. And at the Cloſe of his Diſcourſe on this Subject, he tells us the *Romans* chearfully underwent the

Labour of fortifying, " χάριν τῆς ἐυχερείας, καὶ τὸ " γνώριμον καὶ μίαν ἔχειν καὶ τὴν αὐτὴν ἀεὶ παρεμβολήν. *Becauſe of it's Facility* by Practice, *and their having always one and the ſame known Method of encamping.* Therefore the *Romans*, having once brought it to Perfection, never alter'd their Method of encamping.

Beſides the Rule mark'd ☿, and other Paſſages in our Author to the ſame Purpoſe, he tells us after the Rule ♆, if the two *Conſuls* drew their Armies within one Fortification, we muſt imagine each Army encampt as he has there preſcrib'd, and joyn'd Rear to Rear. *And when this happens,* (ſays he) *the* Figure *is a* Parallelogram, *the* Area *double, and the* Perimeter *once and an half, that of the* For-

Former: That is, of the ſingle Camp he has there above deſcrib'd. " ὅτε δὲ συμβάινει " γίνεσθαι τὸ μὲν σχῆμα παράμηκες, τὸ δὲ χωρίον διπλάσιον τῦ πρόσθεν, τὴν δὲ περί- " μετρον ἡμιόλιον. Now it's evident that the *Perimeter* of two equal equilateral Squares joyn'd as *Polybius* imagines will be exactly once and an half the *Perimeter* of the one: And conſequently if the two equal Figures differ ever ſo little from equilateral Squares, the *Perimeter* of the two when joyn'd as above will be greater or leſs than the *Perimeter* of the one. But *Polybius* ſays the *Perimeter* of the two Conſular Camps (as we may call them) joyn'd Rear to Rear is once and an half the *Perimeter* of the one; therefore the Figure of the ſingle Conſular Camp was an equilateral Square. But it has been ſhewn above that the *Romans* never alter'd their Me-

Method; therefore the Figure conſtantly us'd by the ancient *Romans* for the encampment of a Conſular Army was an equilateral Square. *Which was to be prov'd.*

And this Figure ſeems the only one that could ſo well anſwer their Purpoſe; for if we examine the whole Diſpoſition, we ſhall find no Ground loſt, nor any wanting to make it more regular, beautiful or convenient. And if the Plainneſs and Simplicity of the Method be conſider'd at the ſame time, I don't know but it may be allow'd the beſt human kind was capable of inventing, till the uſe of Fire-Arms made ſome alteration neceſſary.

Polybius allows 50 Foot in Depth from the *Forum* to the *Tribunes* Tents for

for their Horſes, Beaſts of Carriage, and other Equipage as is plain by the Rule B. in conſequence of which all Authors I have met with, tho' they leave out moſt of them the Ground for the Horſes, *&c.* take up 50 Foot in Depth for the *Tribunes* Quarters, which admitted to be right (as in my humble Opinion it muſt, or the Symmetry of the whole Diſpoſition be deſtroy'd) we ſhall find in the following Rules ſufficient Authority for every other Part of the annex'd Plan, except for the Depth of Ground for quartering what Extraordinary remain after compleating the Guards, and for ſupernumerary Allies and Strangers, in the Rear: And this we ſhall alſo prove to be true, the *Poſtulatum* for the *Tribunes* Quarters being admitted. For the Dimenſions mark'd

mark'd upon the Line *a* from Side to Side along the Front are all abſolute, as the following Rules will ſhew: And allowing as much in Depth for the *Tribunes* Quarters as *Polybius* gives for their Horſes, &c. the following Rules will ſhew all the other Dimenſions mark'd upon the Line *a* from Front to Rear to be likewiſe true, except for the above mention'd Ground in the Rear. But the whole Figure has been prov'd to be an equilateral Square; therefore the Depth of that Ground muſt be as much as compleats the Square, *viz.* 66$\frac{2}{3}$ Foot. *Which was to be prov'd.*

It will appear from the Dimenſions of a Troop and Maniple that the Ground allow'd each Man at the ordinary Eſtabliſhment of a Legion, *viz.*

4200

4200 Foot and 300 Horſe, is as much to each Horſeman for himſelf and Horſe as makes a Square whoſe Side is 18.25 Foot; and to every Footman as much as makes a Square whoſe Side is 7.71 Foot. Which diſpos'd to the beſt Advantage, if we deduct from it each Man's Share ſufficient for Galleries to paſs from Front to Rear between the Files, for Porticos along the Front of each Troop and Maniple, for Kitchens, and ſuch other Conveniencies, we ſhall find comfortable Room left for every Man's Quarters, and nothing ſuperfluous.

Accordingly the annex'd Plan contains Ground, beſides the Principal Officers Quarters, publick Streets, *&c.* for two *Roman* Legions, and the

ordinary Complement of Auxiliaries (which was an equal Number of Foot, and double the Number of Horſe,) with about 150 Volunteers (50 quarter'd among the Horſe and about 100 among the Foot-Guards) and the two vacant Places in the Rear, mark'd 25, for the Accommodation of any ſupernumerary Allies or Strangers that might occaſionally arrive, according to the following Rule T.

And as the Guards were compos'd of the Choice of the Extraordinary, and ſome of the *Roman* Gentlemen that ſerv'd out of Reſpect to the *Conſul*, as appears by the Rule N, the more ſuch Volunteers there happen'd to be, the more of the Extraordinary were left to be quarter'd in the Rear purſuant

ant to the Rule ⁊, as the fewer were left to quarter there when the Number of thoſe Gentlemen was leſs. From whence it is plain that the Ground left for ſupernumerary Allies and Strangers was encreas'd or diminiſh'd according to the Number of *Roman* Volunteers that ſerv'd in the Guards.

Our Author informs us in the ſame Book after the Rule ⁊, that two Sides of the Camp were fortified by the Allies, and two by the *Romans*, by each Legion one Side: And they always purſuing one and the ſame plain Method of encamping, as has been obſerv'd before, we may thence conclude that each Man ſoon became acquainted with his own Share of the

Work, and how to perform it quick and well. So that it could hardly be reckon'd a Fatigue among the *Romans* to ſhift their Camp: Neither were they oblig'd to lengthen or ſhorten their Marches as the *Grecians*, and other Nations frequently did, merely for the ſake of Situations ſtrong by Nature, to avoid the Expence of Labour in fortifying.

But I ſhall only mention one particular Advantage further the *Romans* ſeem to have obtain'd by their Manner of encamping, which perhaps has not been taken Notice of before.

If we ſuppoſe the Conſular Army drawn out in Order of Battle before any one Side of their Camp, according

ing

ing to the Ground * *Cæſar* gives for ſix Legions when drawn up, the Foot will extend juſt ſo as to be cover'd by their own Fortification. This Advantage will likewiſe continue to any Number of Legions not exceeding ten: That is, if we ſuppoſe them encampt as the *Romans* are in this Plan, the Front or Rear Line of the Camp will extend ſo as to cover the Foot when drawn out in Order of Battle. And what great Uſe this frequently was to the *Romans* I refer the Curious to the beſt Authority, *Cæſar* himſelf.

The Rules I have wrought by are here inſerted in the Original for the Eaſe of ſuch as ſhall examine how far

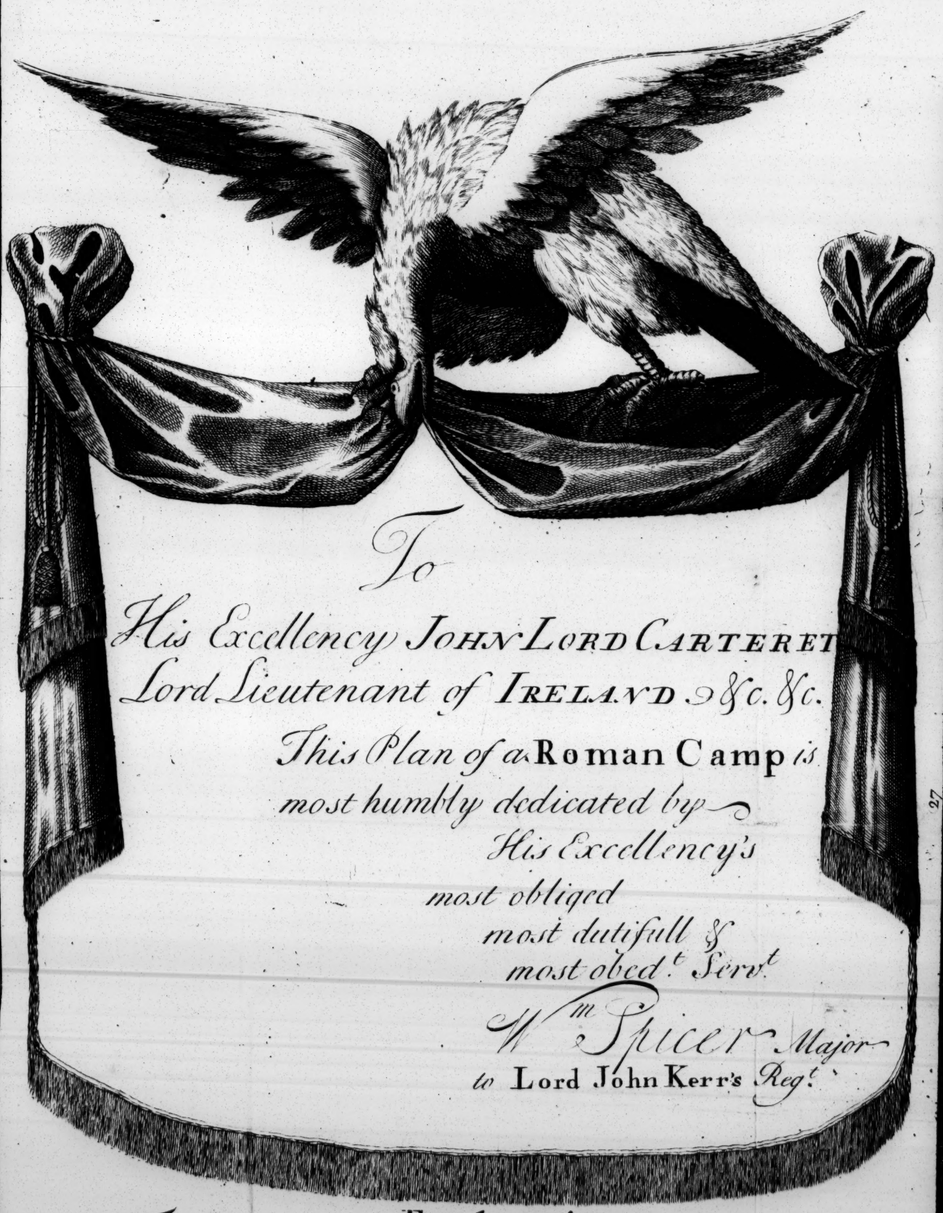
* Lib. 2. de bel. Gal. cap. 8.

I have taken the Senſe of *Polybius* right, to whoſe Judgment I ſubmit this ſmall Performance. And if it ſhall appear that I have hit of the Truth in the main, which is all I pretend to, hope the Reader will excuſe what Imperfections of leſs Moment he may find in a Matter of ſo great Antiquity.

N. B. *In the Preface* Page 5. Line 10. *read* reſpective.

BRITISH MUSEUM

The Ichnography of a Roman C



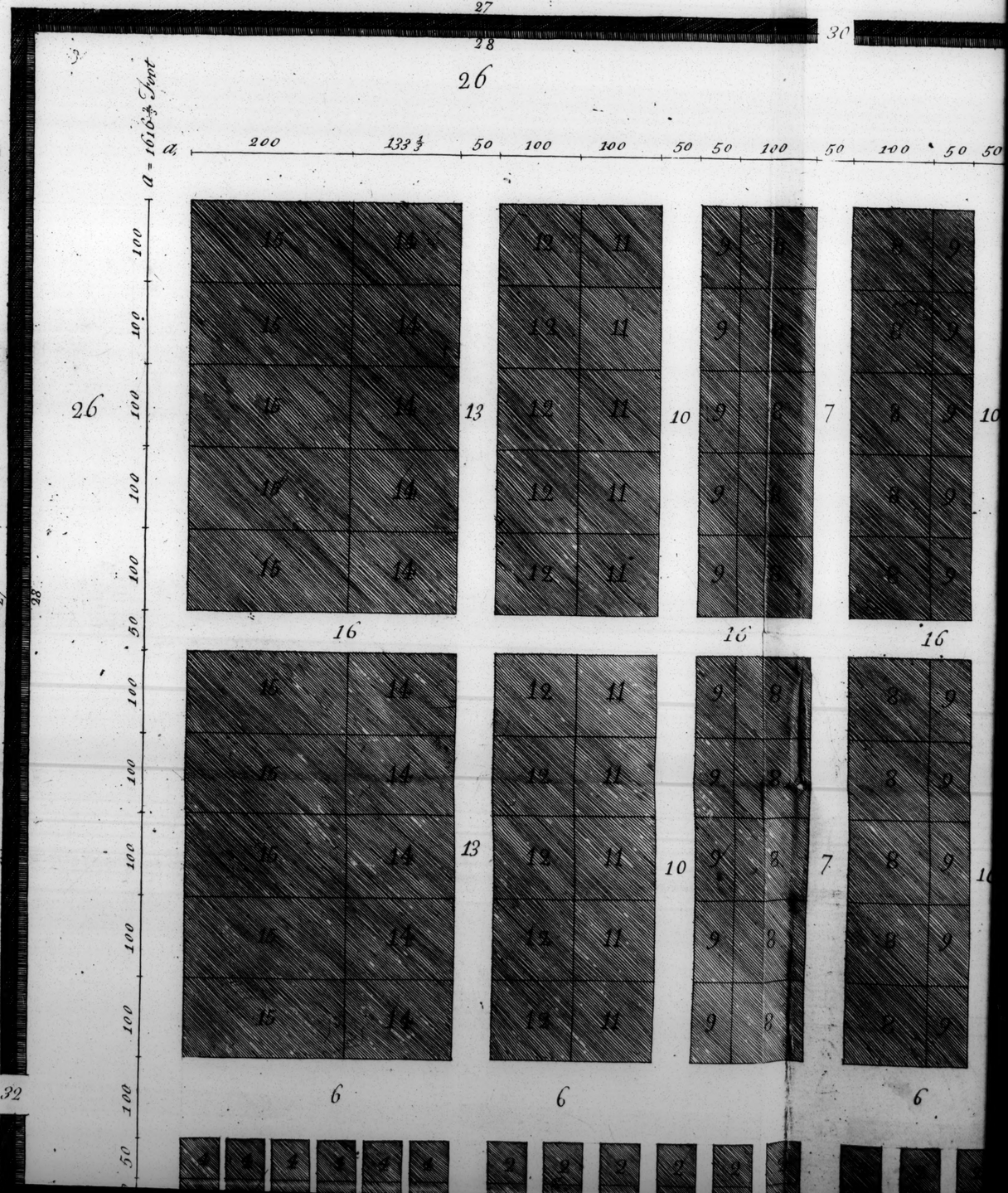
To

His Excellency John Lord Carteret
Lord Lieutenant of Ireland &c. &c.

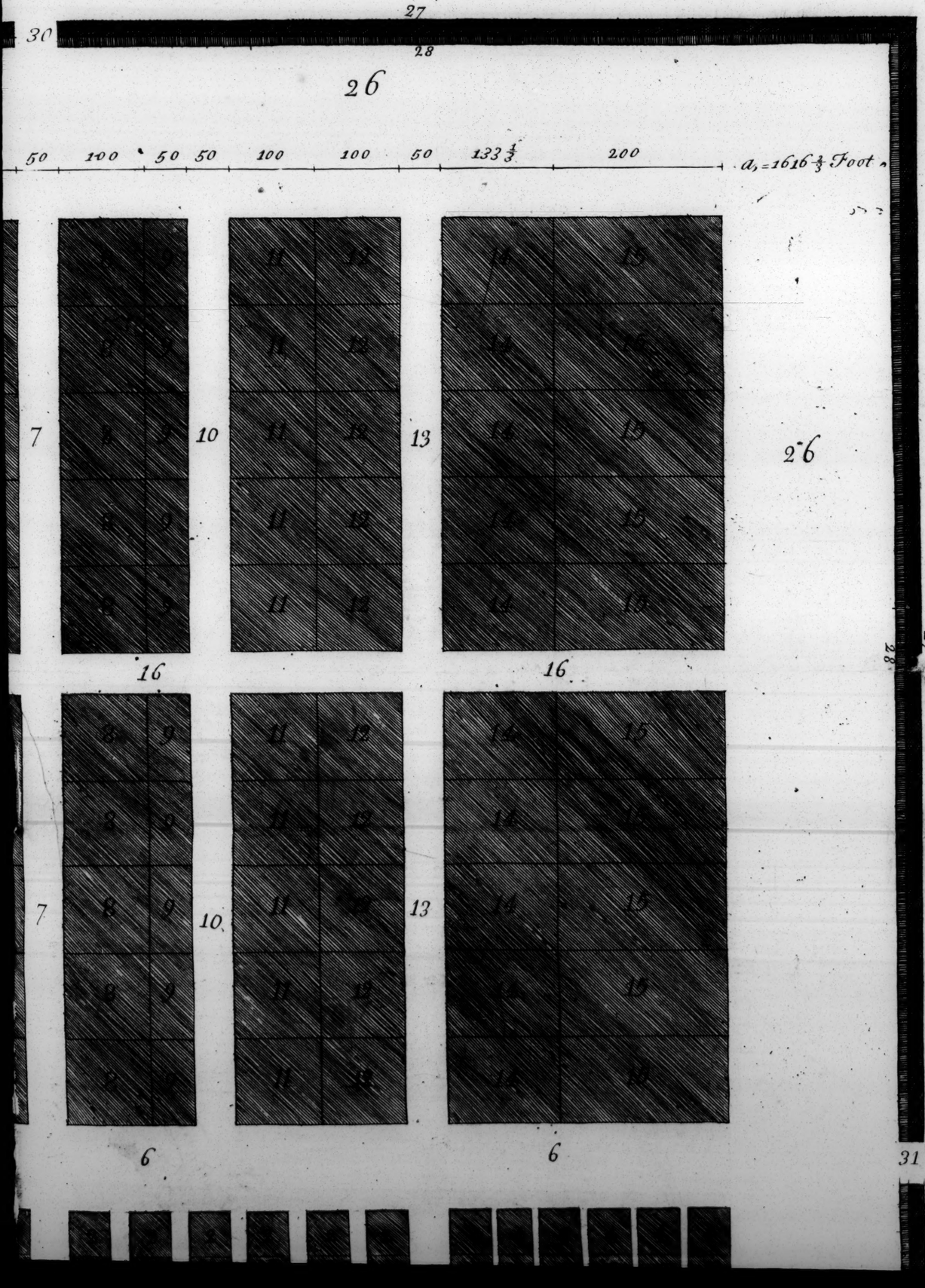
This Plan of a Roman Camp is
most humbly dedicated by
His Excellency's
most obliged
most dutifull &
most obed.t Serv.t
Wm Spicer Major
to Lord John Kerr's Reg.t

Explanation.

1 The Praetorium. A.
2 The Tribunes Tents. B.
3 Ground behind the Tribunes Tents for their Horses, Baggage, &c. B.
4 The Tents of the Praefecti of the Allies. Γ.
5 Ground behind the Tents of the Praefecti of the Allies for their Horses, Baggage, &c. Γ.



...IAN CAMP according to Polybius.



14 *The Horse of the Allies (except the extraordinary) in two lines of 10 divisions each.* I.

15 *The Foot of the Allies (except those drawn out for extraordinary) in two lines of ten divisions each.* K.

16 *Via Quintana 50 Foot wide.* Λ.

17 *The Quæstorium.* M.

18 *The Forum.* M.

19 *Quarters for the Consuls and Quæstors Horse Guards.* N.

20 *Quarters for the Consuls and Quæstors Foot Guards.* Ξ.

21 *A Cross Street 100 Foot wide.* O.

22 *The extraordinary Horse except those drawn out for the Consuls and Quæstors Guards.* Π.

23 *A Street 50 Foot wide.* P.

24 *The Extraordinary Foot except those drawn out for the Consuls and Quæstors Guards.* Σ.

25 *Quarters for any Strangers that may arrive at the Camp.* T.

a,a, *Two lines upon which are mark'd the Principal dimensions of the Camp shewing the whole to be an equilateral Square.* Υ.

26 *A space of two hundred foot between the outmost Tents and the Rampart.* Φ.

27 *The Ditch.* X.

28 *The Rampart.* X.

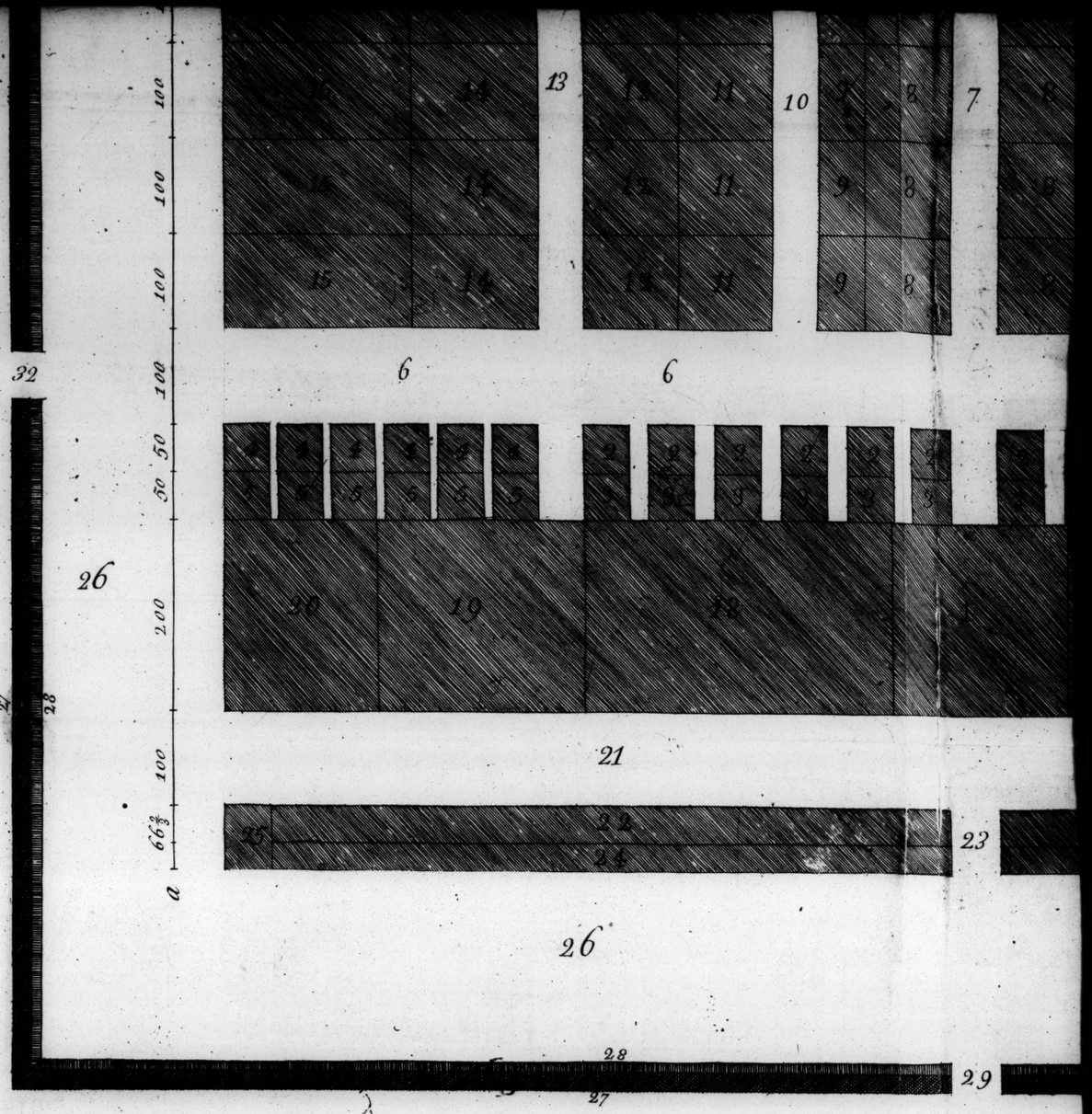
29 *Porta prætoria.* —
30 *Porta decumana.* —
31 *Porta principal.s dex.a* —
32 *Porta prin. sin.a* — } Ψ.

This Plan is calculated for a **Consular** *Army of two* **Roman** *Legions at 4200 Foot and 300 Horse each Legion, and the ordinary complement*

W.m Spicer Major
to Lord John Kerr's Regt.

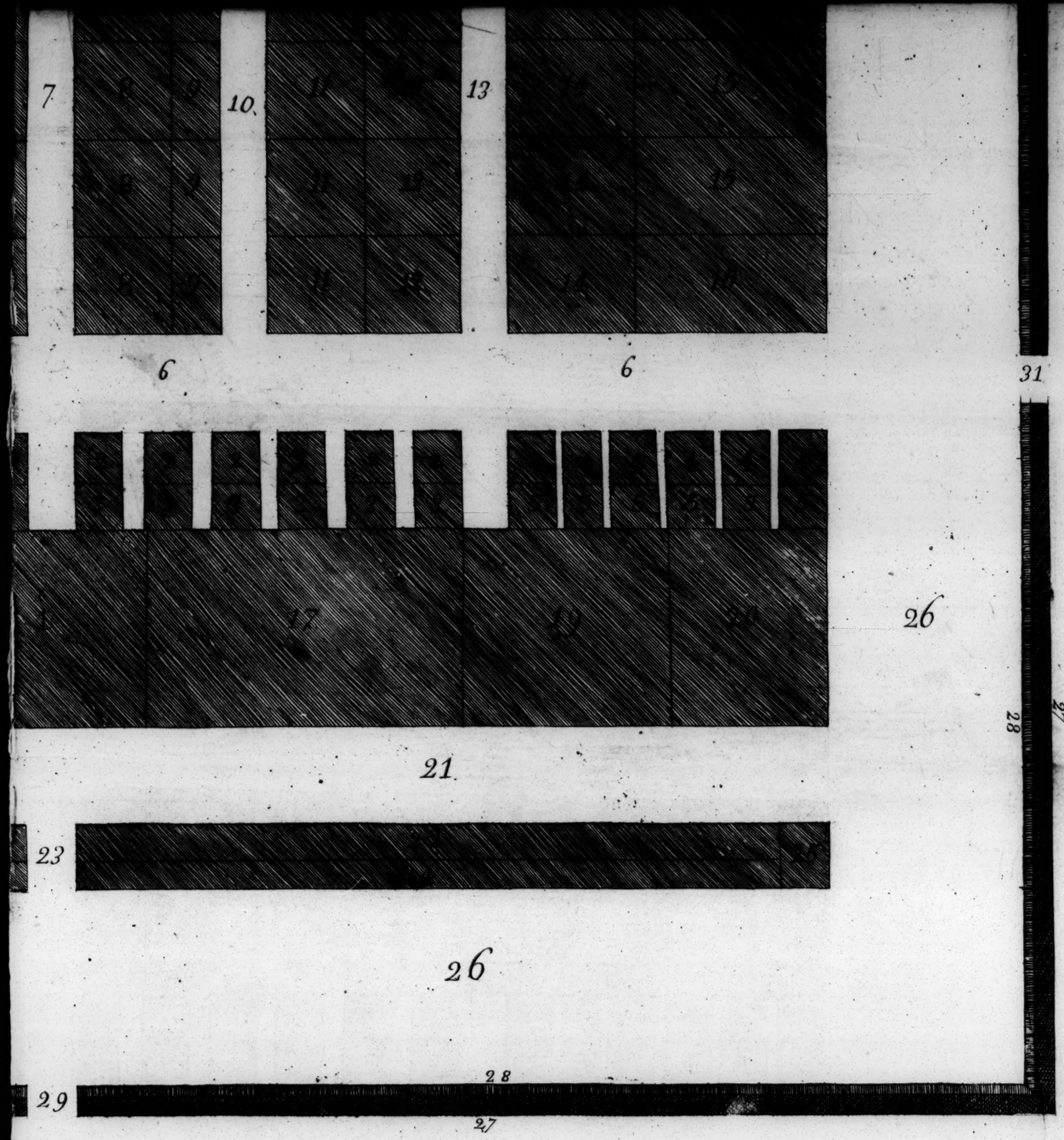
Explanation.

1 *The Prætorium. A.*
2 *The Tribunes Tents. B.*
3 *Ground behind the Tribunes Tents for their Horses, Baggage, &c. B.*
4 *The Tents of the Præfecti of the Allies.* Γ.
5 *Ground behind the Tents of the Præfecti of the Allies for their Horses, Baggage, &c.* Γ.
6 *Principia a Cross Street 100 Foot wide.* Δ.
7 *A Street 50 Foot wide between the Roman Horse.* E.
8 *The Roman Horse of two Legions in ten Troops each.* E.
9 *The Triarij of two Legions in Ten Maniples each.* Z.
10 *Two Streets each 50 Foot wide between the Triarij and Principes.* H.
11 *The Principes of two Legions in ten Maniples each.* H.
12 *The Hastati of two Legions in ten Maniples each.* Θ.
13 *Two Streets each Fifty Foot wide between the Roman Hastati and Horse of the Allies.* I.



A Scale of 1000

100 200 300 400 500 600



the Camp shewing the whole to be an equilateral Square. I.

26 *A space of two hundred foot between the outmost Tents and the Rampart.* Φ.

27 *The Ditch.* X.

28 *The Rampart.* X.

29 *Porta pratoria.* ——
30 *Porta decumana.* ——
31 *Porta principal.s dex.a* ——
32 *Porta prin. sin.a* —— } Ψ.

This Plan is calculated for a **Consular** *Army of two* **Roman** *Legions at 4200 Foot and 300 Horse each Legion, and the ordinary compliment of Allies, viz.t an equal number of Foot, and duble the number of Horse — making in all 16800 Foot and 1800 Horse. And the whole provid — out of* **Polybius** *in a small Book printed for that purpose* ——
To be sold by John Peele *Bookseller in* **London**, *&* George Grierson, *&* Philip Crampton, *Booksellers in* DUBLIN. ——

☞ *The Capital Letters in the Explanation, refer to y Book above mentioned.*

Engrav'd by James Gwim.

le of 1000 Foot

00	600	700	800	900	1000

THE

PLAN

OF A

Roman Camp,

Proved out of

POLYBIUS,

In the following SHEETS;

To which the Letters in the ſaid PLAN refer.

By MAJOR WILLIAM SPICER.

Printed for JOHN PEELE, *Bookſeller in* London; *and* GEORGE GRIERSON, *Bookſeller in* Dublin.
M.DCC.XXVIII.

ΠΟΛΥΒΙΟΣ, Βιβλ. ς'.

Α. ΕΣΤΙ δὲ τὸ μὲν ὅλον αὐτῷ τῆς στρατοπεδείας τοιόνδε. Τῶ μὲν ἱππικῶ ἀεὶ τόπον πρὸς στρατοπεδείαν, τούτου δ' ὀκτωπλεθέστατον εἰς σώσφιν ἅμα καὶ φυλακὴν, ὁ τῶ στρατηγῶ σκηνὴ καταλαμβάνει. Τετράγωνος δὲ τῆς σημαίας, ἣν μέλλουσι πηγνύειν ταύτην, ἀπομετρεῖται πέριξ τῆς σημαίας πτερύγιον τόπου· ὥστε πάσας τὰς πλευρὰς ἑκατὸν ἀπέχειν πόδας τῆς σημαίας, τὸ δ' ἐμβαδὸν γίνεσθαι πτερύπλεθρον.

Β. Τούτου δὲ τοῦ χάρακος ἀεὶ παρὰ μίαν ὀκτφάνειαν καὶ πλευρὰν, ἥτις ἂν ὀκτωπλεθεστάτη φανῇ πρός τε τὰς ὑδρείας καὶ προσβολὰς, παραβάλλεται τὰ Ρωμαϊκὰ στρατόπεδα ὁ τέτταρον τοῦτον. Ἐξ ὑπαρχόντων ἐν ἑκάστῳ στρατοπέδῳ κατὰ τὰ ἄρτι λόγον· δυεῖν δὲ στρατοπέδων ὄντων τῶν Ρωμαϊκῶν ἀεὶ μεθ' ἑκατέρου τῶν ὑπάτων· φανερὸν ὅτι δώδεκα χιλιάρχους ἀνάγκη συστρατεύειν ἑκατέρῳ τῶν ὑπάτων· τιθέασι δὴ τὰς τούτων σκηνὰς ὀπὶ μίαν εὐθεῖαν ἀπάσας, ἥτις ἔξι ἀπέχει τῆ τοῦ τετραγώνου προκειμένη πλευρᾷ, πεντήκοντα δ' ἀπέχει πόδας ἀπ' αὐτῆς· ἵπποις ἅμα δ' ὑποζυγίοις καὶ τῇ λοιπῇ τῶν χιλιάρχων ἀποσκευῇ τόπου· αἱ δ' σκηναὶ τοῦ προκειμένου χάρακα-

POLYBIUS, Lib. 6.

A. THIS is the Method of their (the *Romans*) encamping. Ground being taken for the Camp, the moſt convenient Part of it for Proſpect, and Command, is aſſign'd for the *Prætorium*, or General's Tent: and where they deſign to pitch it, they fix a Standard, and lay out round it a ſquare Plot, ſo that each ſide be one hundred Foot from the Standard, and its *Area* contain four Acres.

B. And always towards one ſide of this Figure, which appears the moſt commodious for Water and Forrage, the *Roman Legions* are poſted in this manner. There being ſix *Tribunes*, as has been obſerv'd before, to every Legion, and two *Roman Legions* under one *Conſul*, it's plain there muſt be twelve *Tribunes* to ſerve under one *Conſul:* all whoſe Tents are pitch'd upon a right Line, parallel to the aforeſaid choſen ſide of the Square, but diſtant from it fifty Foot; which is left a Place for the Horſes, Beaſts of Carriage, and other Equipage of the Tribunes. Theſe Tents, with the back

σχήματος εἰς τοὔμπαλιν ἀπεστραμμένοι, πήγνυνται πρὸς τῷ ἐκτὸς ἔμφάνειαν· ἣ νοείσθω καὶ καλείσθω ὁ καθοπλίτης ἡμῖν ἀεὶ τοῦ παντὸς σχήματος κατὰ πρόσωπον· ἀφεστῶσι δ' ἀλλήλων μὲν ἴσον αἱ τῶν χιλιάρχων σκηναί, τοσοῦτον δὲ τόπον ὥστε παρ' ὅλον τὸ πλάτος ἀεὶ τῶν Ρωμαϊκῶν στρατοπέδων παρήκειν.

Δ. Ἀπομετρηθέντων δὲ πάλιν ἑκατὸν ποδῶν εἰς τὸ πρόσθεν κατὰ πάσας τὰς σκηνάς, λοιπὸν ἀπὸ τῆς τοῦτο τὸ πλάτος ἐκβαλούσης εὐθείας, ἥτις γίνεται τῆς ἀλληλοσκηνίας τῶν χιλιάρχων σκηναῖς, ἀπὸ ταύτης ἄρχονται πιέσθαι τὰς τῶν στρατοπέδων παρεμβολάς, χειρίζοντες τὸν τόπον τοῦτον.

Ε. Διχοτομήσαντες τὴν προειρημένην εὐθεῖαν, ἀπὸ τούτου τοῦ σημείου πρὸς ὀρθὰς τῇ γραμμῇ, τοὺς ἱππεῖς ἀντίους ἑαυτοῖς ἑκατέρου τοῦ στρατοπέδου παρεμβάλλουσι, πεντήκοντα διέχοντας πόδας ἀλλήλων, μέσην ποιοῦντες τὴν τομὴν τοῦ διασήματος. ἔστι δ' ἥ τε τῶν ἱππέων καὶ τῶν πεζῶν σκηνοποιία τοιαύτη τις· γίνεται γὰρ τὸ ὅλον σχῆμα ἐκ τῶν σημαιῶν καὶ τῶν ἀλαμῶν τετράγωνον. τοῦτο δὲ βλέπει μὲν εἰς τὰς διόδους, ἔχει δὲ τὸ μὲν μῆκος ἀφορισμένον, τὸ τοῦ τριῶν διόδων· ἔστι γὰρ ἑκατὸν ποδῶν· ὡς δ' ὅπου τὸ πολύ, καὶ τὸ βάθος ἴσον παρεῖναι ποιεῖν, πλὴν τῶν συμμάχων. ὅταν δὲ τοῖς μείζοσι στρατοπέδοις χρῶνται, τὸ κατὰ λόγον ἐκ τοῦ μήκους καὶ τοῦ βάθους φυλάττουσι.

Part to the ſaid Square, are rang'd facing outward, to that ſide which we ſhall take notice of ſtill as the Front of the whole Scheme: and are equally diſtant from each other, ſo as to cover the whole Depth of the *Roman Legions*.

Γ. The Tents of the * *Præfecti* of the Allies extended, ſo as to cover the whole Depth of their Horſe and Foot, with the ſame Ground behind for their Baggage, as the *Tribunes* of the *Romans* have.

Δ. Again, having meaſur'd one hundred Foot forward from the ſaid Tents, from the right Line, including that ſpace, and parallel to the *Tribunes* Tents, they begin to encamp the Legions, obſerving this order.

E. Having biſected the aforeſaid right Line, at right Angles from thence, oppoſite to one another, they range the Horſe of each Legion, leaving a ſpace between them of fifty Foot, thro' the Middle or Center of which runs the ſaid Line of Section. And the Ichnography for the Tents of the Horſe and Foot is alike, the whole Figure of a Maniple, as well as of a Troop, forming a Square, which faces the open ways, and hath a determin'd Length, upon the direct Street, *viz.* one hundred foot, the breadth of which for the moſt part they make equal to the Length, except for the Allies, and their own *Triarij*; and when the Legions are at a higher Eſtabliſhment, they add to the Length and Breadth of this Figure in proportion.

* This Part is omitted by *Polybius* thro' Inadvertency, or that he thought it needleſs to be ſo very particular.

Ζ. Γενομένης δὲ τῆς τῶν ἱππέων παρεμβολῆς κατὰ μέσας τὰς τῶν χιλιάρχων σκιὰς, διονεὶ ῥύμης τινὸς ἐπικαρσίᾳ φερὸμένῃ τῇ ἄρτι ῥηθεῖσαν εὐθεῖαν; καὶ τὸν φερὸ τῶν χιλιάρχων τόπον· τῷ γὰρ ὄντι ῥύμαις ἐοικαπλήσιον ἀποτελεῖται τὸ τῶν διόδων σχῆμα πασῶν, ὡς ἂν ἐξ ἑκατέρᾳ τῶ μέρους, αἷς μὲν ταγμάτων, αἷς δ' ἐλαμῶν ὅπῃ τὸ μῆκος παρεμβεβληκότων· πλὴν τοῖς περιειρημένοις ἱππεῦσιν κατόπιν τὰς ἐξ ἀμφοτέρων τῶν τετραπέδων Τειρεῖας κατ' οὐλαμὸν ἑκάστην σημαῖαν ἐν ὁμοίῳ σχήματι πλέασι· συμφαυόντων μὲν τῶν σχημάτων ἀλλήλοις, βλεπόντων δ' ἔμπαλιν φερὸς τὰς ἐναντίας τοῖς ἱππεῦσιν ἐπιφανείας, ἥμισυ ποιοῦντες τὸ βάθος τῆς μήκους ἑκάστης σημαίας· τῷ δὲ κατὰ τὸ πλῆθος ἡμίσεις ὡς ὅπῃπαν εἶναι τέτρας τῶν ἄλλων μερῶν. διότιπερ ἀνίσων ὄντων πολλάκις των ἀνδρῶν, ἰσάζειν ἀεὶ συμβαίνει πάντα τὰ μέρη κατὰ τὸ μῆκος, διὰ τὴν τῆς βάθους διαφοράν.

Η. Αὖθις ἢ πεντήκοντα πόδας ἀφ' ἑκατέρων τέτων ἀποσήσαντες, ἀντίας παρεμβάλλουσι τοῖς Τειρεῖοις τὰς Πείγκιππας. νοήσαντες δὲ καὶ τέτων εἰς τὰ φερειρημένα διαστήματα, δύο αὖτας πάλιν ἀποτελοῦντας ῥύμας, τὰς μὲν ἀρχὰς ἀπὸ τῆς αὐτῆς εὐθείας λαμβάνουσας, καὶ τὰς εἰσβολὰς ὁμοίως τοῖς ἱππεῦσιν, ἐκ τῆς περὶ τῶν χιλιάρχων ἑκατομπέδου διαστήματος· λήγουσας δὲ περὶ τὴν κατάντικρυ τῶν χιλιάρχων πλευρὰν τῆς χάρακος, ἣν ἐξ ἀρχῆς ὑπεθέμεθα κατὰ πρόσωπον εἶναι τῆς παντὸς σχήματος.

Θ. Μετὰ δὲ τὰς Πείγκιππας ὕπιδεν τέτων ὁμοίως ἔμπαλιν βλέπουσας, συμφαύοντα μὲν τὰ σχήματα τιθέντες, τὰς Ασπίδας παρεμβάλλουσι· δέκα δὲ σημαίας ἐξ ὅλων ἀπάντων τῶν μερῶν κατὰ τὴν ἐξ ἀρχῆς διαίρεσιν, πάσας ἴσας συμβαίνει γίνε-

Z. Moreover, this diſpoſition being made of the Horſe againſt the middle Tents of the Tribunes, like a Street traverſing the ſaid right Line, and Interval before the Tribunes Quarters (for all theſe Intervals, as they are fill'd the whole Length on either ſide, ſome with Troops of Horſe, and ſome with Maniples of Foot, reſemble the Streets in a Town) I ſay, behind the ſaid Horſe, they poſt the *Triarij* of either Legion, to every Troop a Maniple in the ſame Figure, joining one another, but fronting contrary to the Horſe; and make the Depth of each of theſe Maniples equal to half its Length, theſe being in number equal but to half the other Parts, (the *Principes* and *Haſtati*) wherefore, tho' the number of Men in theſe Diviſions be often unequal, yet by altering only the Depth in Proportion, it happens they all continue ſtill equal in Length.

H. Again, oppoſite to the *Triarij*, they poſt the *Principes* fifty foot diſtant from them. And theſe lying upon the ſaid Intervals, two more Streets are form'd, taking their Beginning and Entrance as the Horſe do, from the ſaid right Line, a hundred foot interval before the Tribunes, and ending at that ſide of the Camp which we have taken notice of from the beginning as the Front of the whole Figure.

Θ. In like manner next the *Principes*, behind them, they encamp the *Haſtati*, ſo that their Tents touch each other, but front a contrary way. And there being ten Troops or Maniples in each Corps of a Legion, according

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γίνεσθαι τὰς ῥύμας κ) καὶὰ τὸ μῆκ⊖, κ) τὰς ἀπ[illegible]ομὰς ἰσάζειν αὐτῶν τὰ πρὸς τῇ καὶὰ τὸ πρόσωπον πλευρᾷ τῇ χάρακ⊖· πρὸς ἣν κ) τὰς τελευταίας σημαίας ὀπισθρέφοντες τεταρταιοπεδεύουσιν.

Ι. Ἀπὸ τῶν Ἀσπάτων πεντήκοντα πάλιν διαλείποντες πόδας, τὰς τῶν συμμάχων ἱππεῖς ἀντίους παρεμβάλλουσι τέτους, ποιέμφυσι τὴν ἀρχὴν ἀπὸ τ αὐτῆς εὐθείας, κ) λήγοντες ὅπ τὴν αὐτήν. ἔστι ὃ τὸ πλῆθος τῶν συμμάχων, ὡς ἐπάνω προεῖπα, τὸ μὲν τῶν πεζῶν πάρισον τοῖς Ρωμαϊκοῖς τετραπέδοις, λεῖπον τοῖς ὁπλέκτοις· τὸ ὃ τῶν ἱππέων διπλάσιον· ἀφηρημένου κ) τέτων τὸ τέτε μέρος εἰς τὰς ὁπλέκτας· διὸ κ τὸ βάθος αὔξοντες τέτοις πρὸς λόγον ἐν τοῖς τεταρταιοπεδευτικοῖς χήμασι, πειροῦνται κατὰ τὸ μῆκ⊖ ἐξισοῦν τοῖς τῶν Ρωμαίων τετραπέδοις.

Κ. Ἀποτελεσθεισῶν ὃ τῶν ἁπασῶν πέντε διόδων, αὖθις εἰς τοὔμπαλιν ἀπεστραμμένας ὁμοίως τοῖς ἱππεῦσι πλησίασι τὰς τῶν συμμαχικῶν πεζῶν σημαίας, αὔξοντες τὸ βάθος πρὸς λόγον, βλεπούσας ὃ πρὸς τ χάρακα, κ) πρὸς τὰς ἐκ τῶν πλαγίων ὀπφανείας ἑκατέρας· καθ' ἑκάστην δὲ σημαίαν τὰς πρώτας ἀφ' ἑκατέρ τῶ μέρους σκηνὰς οἱ ταξίαρχοι λαμβάνουσιν.

Λ. Ἅμα δὲ τ προειρημένον τόπον παρεμβάλλοντες καθ' ἕκαστον μέρος τ ἕκτον ὑλαμὸν ἀπὸ τῶ πέμπτ πεντήκοντα πόδας ἀφιστᾶσι. ὡσαπλησίως δὲ κ) τὰς τῶν πεζῶν τάξεις. ὥστε γίγνεσθαι κ) ταύτην ἄλλην ἅμα μέσων τῶν τεταρταιοπέδων διόδον,

to the firſt Diviſion, it happens all the Streets are equal in length, and their Segments even towards the Front-ſide of the Camp, facing which the laſt Troops and Maniples are always poſted.

I. Leaving a Space of fifty Foot from the *Haſtati*, they poſt the Horſe of the Allies oppoſite to them, beginning and ending at the ſame right Lines. The Number of Allies, as I have ſaid before, is equal in Foot to the *Roman* Legions, from which is drawn the *Extraordinarij*, (*viz.* one fifth part) and double in Horſe; from which one third part is likewiſe drawn for *Extraordinarij*. Wherefore by increaſing the Breadth of their Ground accordingly, the Length becomes equal to the *Roman* Legions.

K. All the five Streets thus finiſhed, in like manner turn'd back to back to the Horſe, and augmenting the Depth of Ground in proportion, they encamp the Foot of the Allies fronting the Rampart, and each * tranſverſe Side of the Camp. And here it is to be obſerv'd, that the Centurions have the firſt Tents upon the Right and Left of each Maniple.

Λ. Moreover, in diſpoſing on either Side the Horſe, after the manner abovemention'd, they ſeparate the ſixth Troop from the fifth fifty-foot, and obſerve the ſame in the Maniples of Foot; ſo that another Street is form'd

* In reſpect to the Front and Rear.

δίωδον, ἐπικάρσιον μὲν πρὸς τὰς ῥύμας, παράλληλον δὲ ταῖς τῶν χιλιάρχων σκηναῖς, ἃς καλοῦσι πέμπελλα διὰ τὸ πρὸ τὰ πέμπτα τάγματα παρήκειν.

Μ. Ο δ' ὑπὸ τὰς τῶν χιλιάρχων σκηνὰς ἔπιπεδον τόπον ὑποπεπτωκὼς, ἐξ ἑκατέρου τοῦ μέρους τῆς τοῦ στρατηγοῦ προστάσεως παρακείμενον, ὁ μὲν εἰς ἀγορὰν γίνεται τόπον, ὁ δ' ἕτερος τῶν ταμίων, καὶ ταῖς ἅμα τούτῳ χορηγίαις.

Ν. Ἀπὸ δὲ τῆς ἐφ' ἑκάτερα πλευραίας τῶν χιλιάρχων σκηνῆς, κατόπιν οἷον ὀπισθόφυλακα ἔχοντες τάξιν πρὸς τὰς σκηνὰς, οἱ τῶν ὀπλέκτων ἱππέων ἐπίλεκτοι, καὶ τινες τῶν ἐθελοντηδὸν στρατευομένων τῇ τῶν ὑπάτων χάριτι. πάντες οὗτοι στρατοπεδεύουσι παρὰ τὰς ἐκ τῶν πλαγίων τοῦ χάρακος ἐπιφανείας· βλέποντες οἱ μὲν ἐπὶ τὰς τοῦ ταμείου παρασκευάς, οἱ δ' ἐκ θατέρου μέρους εἰς τὴν ἀγορὰν. ὡς δ' ἐπὶ τὸ πολὺ συμβαίνει τούτοις, μὴ μόνον στρατοπεδεύειν σύνεγγυς τῶν ὑπάτων, ἀλλὰ καὶ κατὰ τὰς πορείας, καὶ κατὰ τὰς ἄλλας χρείας παρὰ τὸ ὕπαιθον, καὶ τὸ ταμίαν ποιεῖσθαι τὴν ἐπιμέλειαν, καὶ τὴν ὅλην διατριβήν.

Ξ. Ἀντίκεινται δὲ τούτοις ἐπὶ τὸ χάραξ βλέποντες οἱ τὴν παρεμπλήσιον χρείαν παρεχόμενοι πεζοὶ τοῖς προειρημένοις ἱππεῦσιν.

Ο. Ἐξῆς δὲ τούτοις δισθὸν ἀπολείπεται πλάτος ποδῶν ἑκατόν, παράλληλον μὲν ταῖς τῶν χιλιάρχων σκηναῖς· ἐπὶ θάτερα δὲ τὰ ἀγορᾶς, καὶ τοῦ στρατηγίου, καὶ τοῦ ταμείου παρατείνουσα, παρὰ πάντα τὰ προειρημένα μέρη τοῦ χάρακος.

Π. Παρὰ

thro' the middle of the Legions, perpendicular to their Rows of Tents, and parallel to the *Tribunes*, which they call *Quintana*, or the fifth from its traverſing the fifth Troops and Maniples.

M. The Ground lying behind the *Tribunes* Tents joining on each ſide the *Prætorium*, is appointed one part for the *Forum*, and the other for the *Quæſtor*, and the Proviſions, *&c.* under his Charge.

N. From the laſt Tent of the *Tribunes* on either ſide backward, and in Order *as to front*, &c. perpendicular to the ſaid Tents, are diſpos'd the choice Men drawn out of the extraordinary Horſe, and ſuch Volunteers as ſerve out of honour and reſpect to the Conſuls. All theſe are quarter'd toward the right and left Sides of the Camp, fronting part of them the *Quæſtorium*, and part on the other ſide the *Forum:* And for the moſt part it happens, they have not only their Quarters in Camp, near the Conſuls, but upon a March, and other Occaſions, they perform their whole Duty and Service about the Conſul and Quæſtor.

Ξ. And turn'd a contrary way to theſe ſelected Horſe, ſo as to face the Rampart, are poſted the Foot, who have the ſame Duty aſſign'd them as the formention'd Horſe.

O. From thence is left a Street, one hundred Foot wide, parallel to the *Tribunes* Tents, and extending along the Forum, Prætorium, and Quæſtorium to either ſide of the Camp.

Π. Παρὰ δὲ τὴν ἀνωτέρω πλευρὰν ταύτης οἱ τῶν συμμάχων ἱππεῖς ἐπ' ἐκτοι ςρατοπεδεύουσι, βλέποντες ἐπί τε τὴν ἀγορὰν, ἅμα καὶ τὸ ςρατήγιον, καὶ τὸ ταμιεῖον.

Ρ. Κατὰ μέσην δὲ τῶν τέτων τῶν ἱππέων παρεμβολὴν, καὶ κατ' αὐτὴν τὴν τῆ ςρατηγίᾳ περίςασιν, διοδεύει ἀπολείπεται πεντήκοντα ποδῶν· φέρεται μὲν ἐπὶ τὴν ὄπισθεν πλευρὰν τῆς ςρατοπεδείας, τῇ δὲ τάξει πρὸς ὀρθὰς κειμένη τῇ πρόσθεν ῥημένῃ πλατείᾳ.

Σ. Τοῖς δὲ ἱππόυσι τέτοις ἀντίτυποι τίθενται πάλιν οἱ τῶν συμμάχων ἐπίλεκτοι πεζοὶ, βλέποντες πρὸς τ χάρακα καὶ τὴν ὄπισθεν ἐπιφάνειαν τῆς ὅλης ςρατοπεδείας.

Τ. Τὸ δὲ ἀπολειπόμενον ἑξ ἑκατέρου τοῦ μέρους τέτων κένωμα διὰ τὰς ὀκ τῶν πλαγίων πλευρὰς δίδοται τοῖς ἀλλοφύλοις, καὶ τοῖς ὀκ τοῦ κοινῇ πρὸς τοὺς συμμάχοις.

Υ. Τέτων δ' ὕτως ἐχόντων, τὸ μὲν σύμπαν χῶμα γίνεται τ ςρατοπεδείας πλεοναζον ἰσόπλευρον. τὰ δὲ καθ' μέρος ἤδη τ τε ῥυμοτομίας ἐν αὐλῇ καὶ τ ἄλλης οἰκονομίας, πόλεα παραπλησίαν ἔχει τὴν διάθεσιν.

Φ. Τὸν δὲ χάρακα τῶν σκηνῶν ἀφιςᾶσι κατ' πάσας τὰς ἐπιφανείας ἀμεταςάτους ποδὸς· τοῦτο δὲ τὸ κένωμα πολλὰς καὶ δοκίμους αὐτοῖς παρέχεται χρείας. πρός τε γὰρ τὰς εἰσαγωγὰς, καὶ τὰς ἐξαγωγὰς τῶν ςρατοπέδων εὐφυῶς ἔχει, καὶ δεύντως· ἕκασοι γὰρ κατ' τὰς ἑαυτῶν ῥύμας εἰς τοῦτο τὸ κένωμα ποιοῦνται τὴν ἔξοδον, ἀλλ' ὀκ εἰς μίαν συμπίπτοντες ἀνατρέπουσι καὶ συμπατοῦσιν ἀλλήλους· τάς τε τῶν παρειςαγομένων ἁρεμμάτων, καὶ τὰς ὀκ τῶν πολεμίων λείας εἰς τοῦτο συνάγοντες ἀσφαλῶς πρῶσι τὰς νύκτας· τὸ δ' μέγιςον, ἐν ταῖς ὑπνοφόβοις ταῖς νυκτε-

Π. And along the upper ſide of this Street, are quarter'd the reſt of the extraordinary Horſe of the Allies facing the Forum, Prætorium and Quæſtorium.

P. Through the middle of this diſpoſition of the Horſe from the General's Quarters is left a way fifty Foot broad, reaching to the Rear Side of the Camp, perpendicular to the ſaid broad Street.

Σ. Then behind theſe Horſe are plac'd the reſt of the extraordinary Foot of the Allies facing the Rampart and Rear of the whole Encampment.

T. And the Space left void on either hand toward the tranſverſe Sides, is left for Strangers, and ſuch of their Allies as may accidentally arrive.

Υ. Thus the whole Figure of the Encampment makes an equilateral Square, which hath the reſemblance of a Town, in regard to the Diſpoſition of its Streets, and other Order and Symmetry therein obſerv'd.

Φ. They raiſe the Rampart, every ſide * two hundred foot diſtant from the Tents. And this void Space yields them many and ſingular Conveniences: It is commodious for the marching in and out of the Legions; for the Diviſions moving into this open Ground, every one thro' their own Streets, avoid the Confuſion and Diſorder that would happen by crouding all thro' one Paſſage: hither they bring and ſecure in the Night, their Booty

* This anſwers the *Pomærium* in a Town.

of

νυκτεριναῖς, ὅτε πῦρ ὅτε βέλος ἐξικνεῖται πρὸς αὐτὸς, πλὴν πλείως ὀλίγων· γίνεται γ' ἡ καὶ ταῦτα χαδὸν ἀβλαβῆ, διά τε τὸ μέγεθος τ διποσάσεως ☾ διὰ πλὴ τῶν σκιωῶν περί-σασιν.

of Cattle, and what Spoil they recover from the Enemy; but chiefly it is of uſe to them, that in any Aſſault in the Night, neither Fire can be thrown, nor Darts to reach them, except ſome few, and thoſe ſpent, and generally harmleſs, on account of the great diſtance, and outmoſt Range of Tents.

X. In deſcribing the *Roman Camp*, *Polybius* gives no dimenſions for the Rampart or Ditch, theſe varying according to the different Circumſtances they were in. In the annex'd Plan, I make the Rampart 12 Foot high, and the Ditch 18 Foot broad, and as deep; becauſe *Cæſar* fortify'd one of his Camps ſo, *Caſtra in altitudinem pedum duodecim vallo, foſſaque duodeviginti pedum munire jubet*. Lib. 2. de Bello Gall. cap. 5.

Ψ. *Polybius* gives us neither the Names nor Number of the Ports; but it's clear from other Authors there were four in all, one to each ſide of the Camp, *viz.* *Porta prætoria*, from its being plac'd in the Rear behind the *Prætorium*, (and from the *Quæſtor*'s Quarters being near it, and the *Extraordinary*, it was call'd ſometimes *Quæſtoria*, and ſometimes *Extraordinaria*;) *Porta decumana*, from its being plac'd in the Front before the tenth Orders; *Porta principalis dextra*, and *Porta principalis ſiniſtra*, from their opening one into the Right, the other into the Left of the *Principia*, before the Quarters of all the Principal Officers.

FINIS.

MVSEVM
BRITAN
NICVM